

# FIRST HILL STREETCAR



First Hill Streetcar Project Update

Seattle City Council Transportation Committee

February 23, 2010



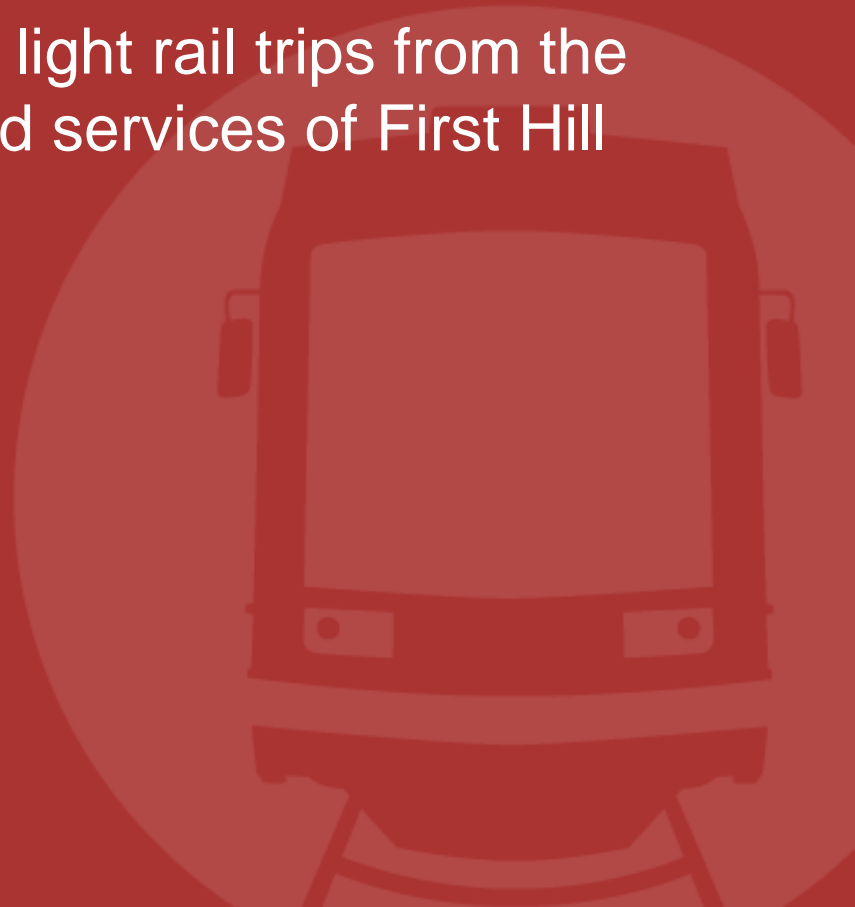
# Presentation Overview

- Background
- Proposed Schedule
- Public Involvement
- Alignment Assessment Criteria
- Alignment Alternatives: Assessment Results & Community Input
- Next Steps



# Project Background & Purpose

- Replaces First Hill Light Rail Station
- Funded as Part of ST2 Ballot Measure
- Primary purpose is to connect light rail trips from the north and south to the jobs and services of First Hill



## Streetcars as Urban Circulators

- Easy On/Easy Off  
(Low Floor, Wide Doors)



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- Fixed Route



## Streetcars as Urban Circulators

- Easy On/Easy Off  
(Low Floor, Wide Doors)
- Ride Quality
- Fixed Route
- Compatibility with Urban Neighborhoods  
(Small, Quiet, Predictable)



# Interlocal Agreement

- ST provides up to \$132.78 M Capital Funding
- ST funds Operations & Maintenance
- City Responsible for Design & Construction
- Alignment Approval: City Council





# Preliminary Proposed Project Schedule

## Community Involvement Alignment Assessment Phase

Concept Design  
Public Review of Alternatives  
Alignment Selection (City Council)

## Environmental Review Process

Environmental Review process  
Adoption of SEPA Decision (Sound Transit)

## Conceptual Engineering

## Final Design

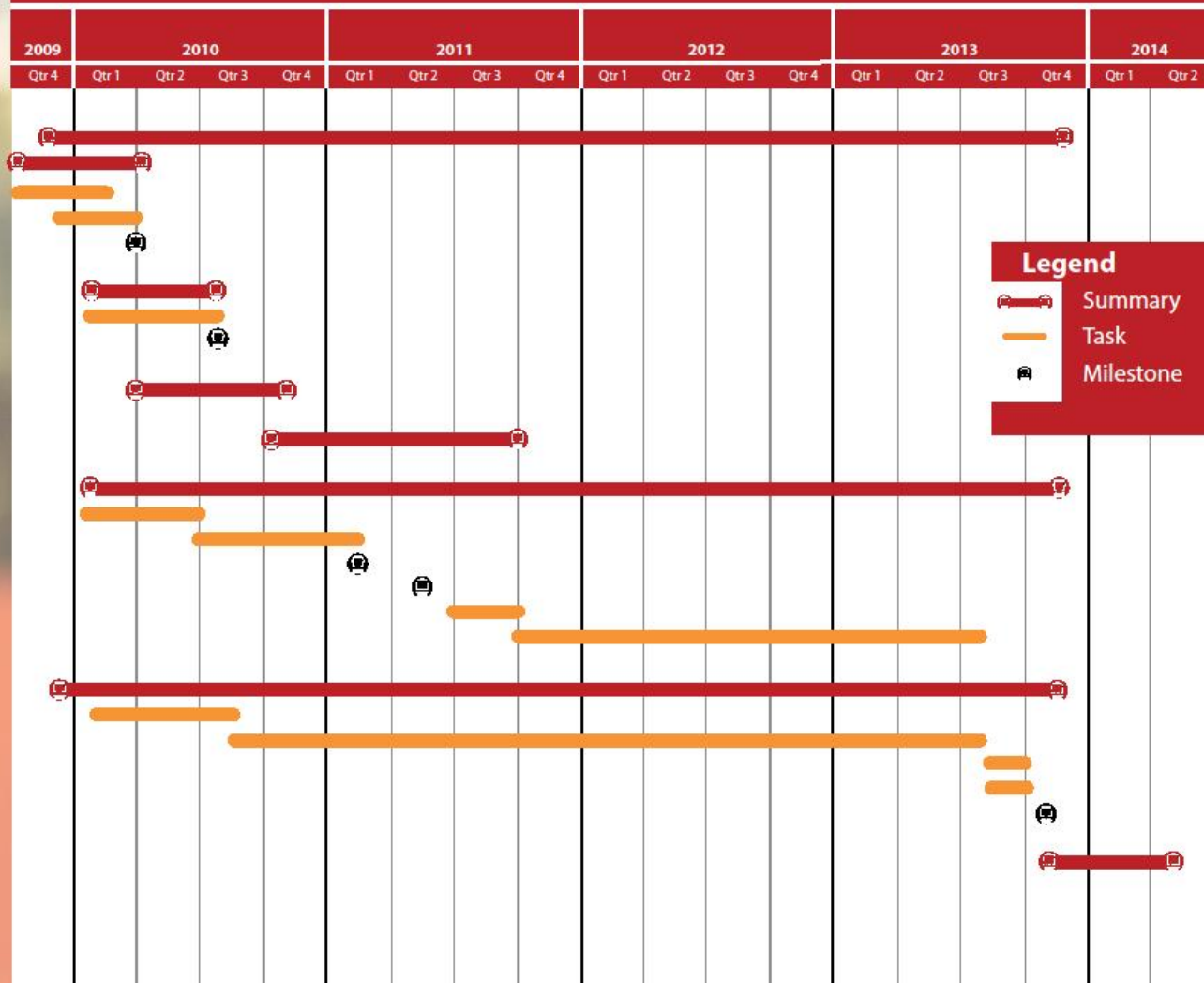
## Procurement and Construction

GC/CM Selection Process  
Preconstruction Services  
Council Authorization of MACC  
Execute MACC  
Advanced Utilities  
Construction

## Vehicle Procurement/Testing/Startup

Vehicle Procurement  
Vehicle Manufacturing and Delivery  
Vehicle Acceptance and Testing  
Safety Outreach Campaign  
Commence Operations

## Closeout Phase



# Public Involvement

## Alignment Assessment Phase

- Open Houses: December February March

- Community Councils
- Bike & Ped Boards
- Targeted Outreach
- Website



### Sắp có First Hill Streetcar. Chúng tôi muốn biết ý kiến của bạn

- Thành Phố Seattle kính mời quý vị tới dự một **trò đàm cộng đồng** để tìm hiểu về các phương án lựa chọn cho lộ trình Seattle Streetcar tại First Hill
- Lộ trình **First Hill Streetcar** mới sẽ kéo dài từ District và Pioneer Square, qua First Hill và vào Capitol Hill
- Dự án này được **tài trợ toàn bộ** cho phần xây cơ sở hạ tầng. Dự kiến sẽ động thổ trong năm 2011 trước năm 2013.



Dự án này được tài trợ bởi dự luật là phiếu ST2 đã được các cử tri phê duyệt



### SEATTLE STREETCAR

CAPITOL HILL → FIRST HILL → YESLER TERRACE →  
CHINATOWN/ID → PIONEER SQUARE

### The First Hill Streetcar is coming. We want to hear from you!

In December, the City of Seattle hosted its first set of community meetings on the upcoming **First Hill line of the Seattle Streetcar**. Many of you provided quality feedback about the routes under consideration and your input was valuable.

Study of these comments is currently being combined with other important alignment factors including bicycle integration, ridership and economic development potential, possible utility conflicts, streetcar travel time, capital and operating costs, potential traffic and parking revisions and urban design opportunities.

We hope you will attend our next round of **community open houses** this February to learn new information about how we have narrowed the current First Hill Streetcar route options based on these criteria.

This project—**fully funded** for construction and operation—is scheduled to break ground in 2011 and be open by 2013.

Come to one of our community open houses to learn from city representatives about the proposed streetcar routes, provide feedback on which alignment you think would be best and sign-up to receive updates.

We hope to see you there!

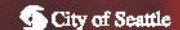
If you need an interpreter to be present at any of these meetings, please contact Kate Miller at 206.638.9224 or kmiller@searogroup.com at least five working days prior to the event date. Information in languages other than English will be available shortly. Please check our website for updates.

→ **Tuesday, February 9, 2010**  
4:00-7:00 PM  
Union Station  
401 S. Jackson Street  
Seattle, WA 98104

→ **Thursday, February 11, 2010**  
11:30-1:00 PM  
Seattle First Baptist Church  
1111 Harvard Ave.  
Seattle, WA 98122

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# Public Involvement

## Environmental Review/Preliminary Engineering Phase

- Increased emphasis on targeted/small group outreach
- Focus shifts to station locations, traffic & parking revisions, anticipated construction phasing



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# Public Involvement

## Final Design Phase

- Increased emphasis on businesses/residents directly adjacent to alignment
- Focus shifts to station design, additional construction phase details



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# Public Involvement

## Construction Phase

- Full-time outreach staff for daily contact
- Increased involvement of GC/CM (Contractor)
- Focus is weekly/quarterly construction look-ahead & individualized problem solving



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# Alignment Assessment

- Capital & Operating Costs
- Streetcar Travel Time
- Ridership Potential
- Utilities/Construction Impacts
- Traffic/Parking Revisions
- Bike Integration
- Urban Design Opportunities
- Economic Development Potential





Left side station



Right side station



Center platform station

**Place stations outside the bicycle travel way to minimize conflicts.**





This configuration traps the cyclist between streetcar tracks and motorists opening car doors.



Cyclists are most comfortable crossing tracks at an angle near 90 degrees. As the angle decreases the risk of catching a tire in the track increases.



Maximize distance between streetcar tracks and bikeway. One method is to create dedicated facilities such as bike lanes when space permits. This delineation highlights the most desirable travel path for each user and minimizes modal conflicts.

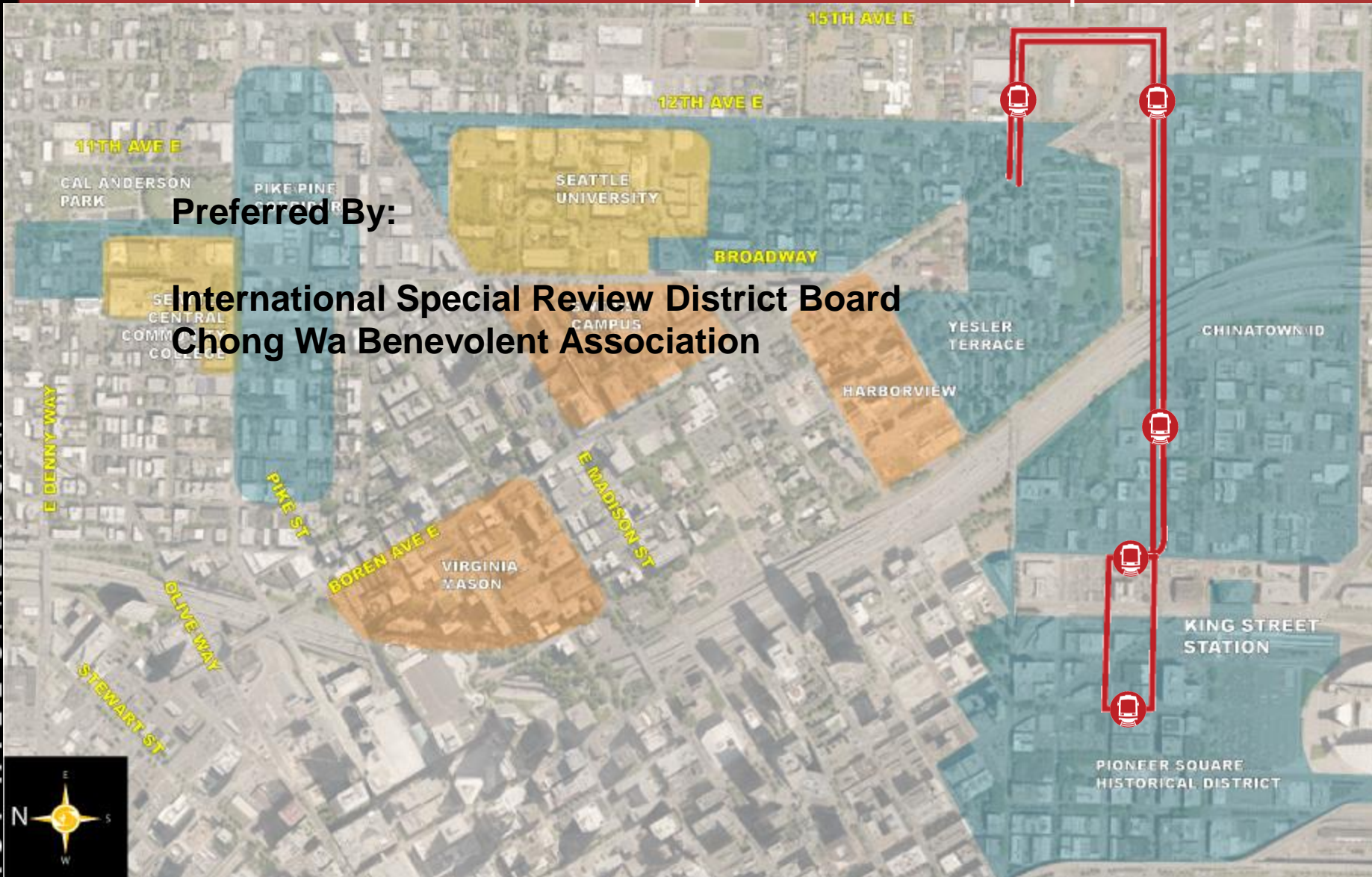
**Minimize bicycle and streetcar track conflicts.**



# Chinatown/International District: Southern Terminus with Pioneer Square Turnback Loop

**Preferred By:**

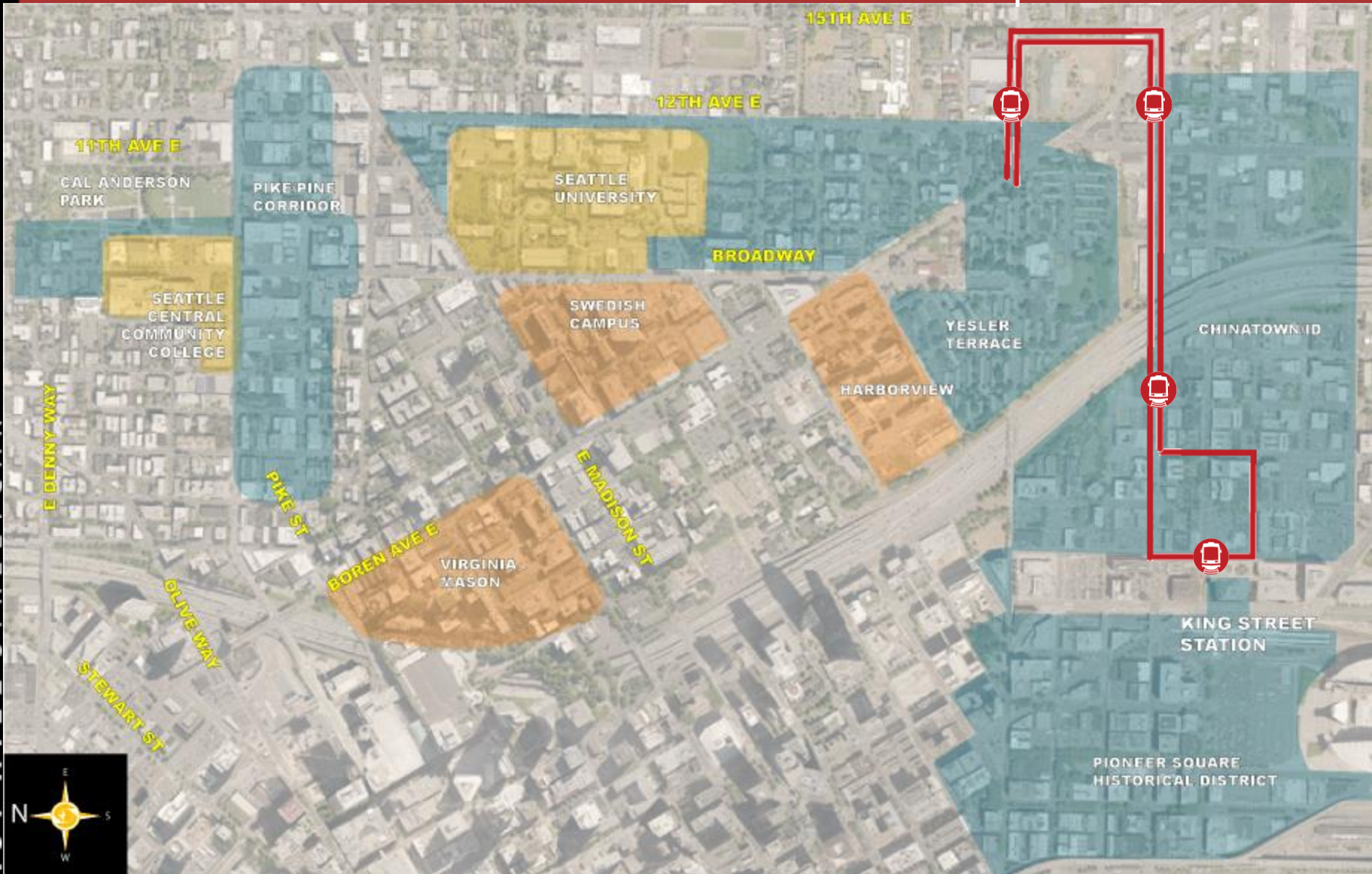
**International Special Review District Board  
Chong Wa Benevolent Association**





# Chinatown/International District: Southern Terminus with Weller Street Turnback Loop

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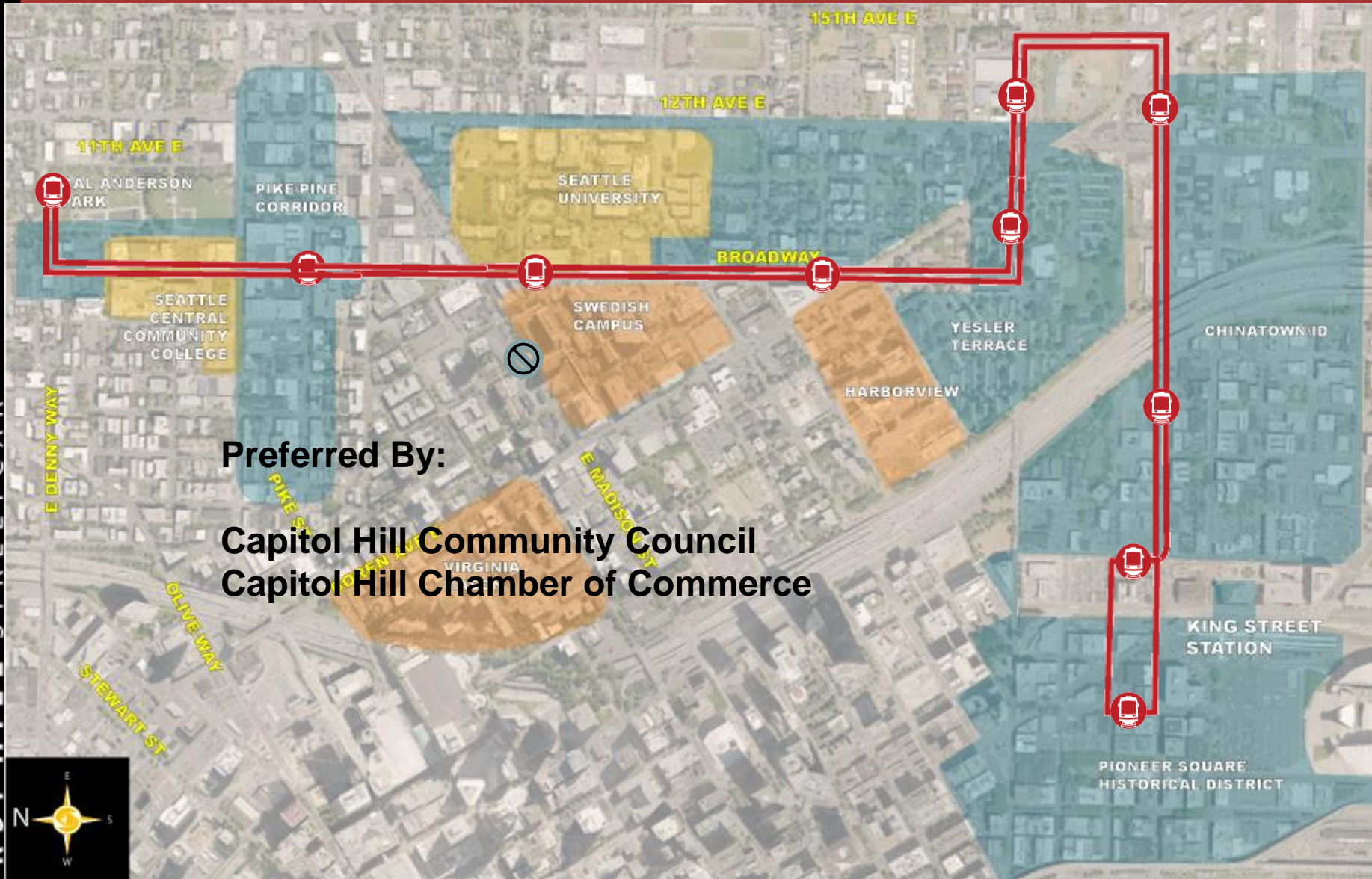




# Two-Way Broadway

# North of Union

FIRST HILL STREETCAR



# Two-Way Broadway





# Boren/Seneca



- **Good Ridership Potential**
- **\$12 - \$15 M Over Funding Limit**
- **Bike Conflicts**
- **Significant Traffic, Transit and Utility Impacts**
- **Slower Travel Time**
- **Steep Grade**

# Broadway/12<sup>th</sup> Avenue Couplet



- Cost is Within Funding Limit
- Impacts 12<sup>th</sup> Avenue Bike Corridor
- Good Travel Time
- Good Ridership Potential
- Minor Impacts to Traffic/Parking/Utilities
- Couplet Configuration Unproven



# Broadway/Boylston/Seneca

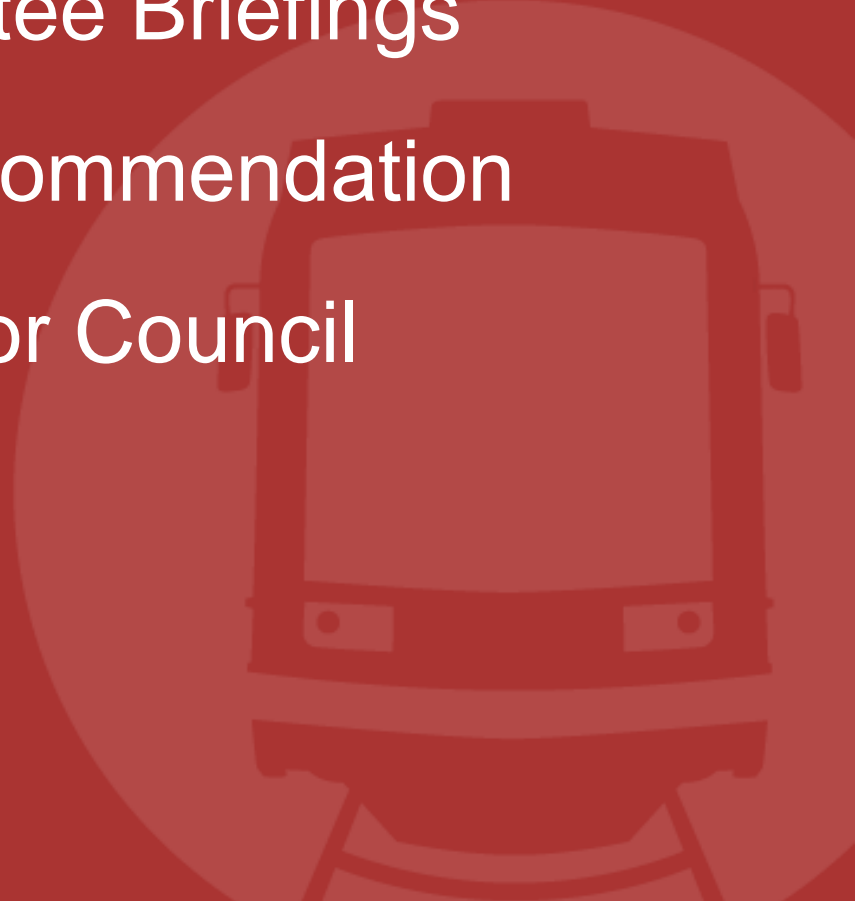


- **Good Ridership Potential**
- **\$3 -\$6 M Over Funding Limit**
- **Can Be Successfully Integrated with Bikes**
- **Significant Traffic, Transit and Utility Impacts**
- **Slower Travel Time**
- **Steep Grade**



# Next Steps

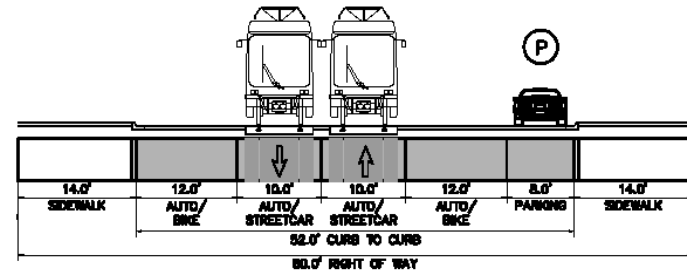
- Ongoing Public Involvement
- Transportation Committee Briefings
- Mayor's Alignment Recommendation
- Alignment Resolution for Council Action (April)



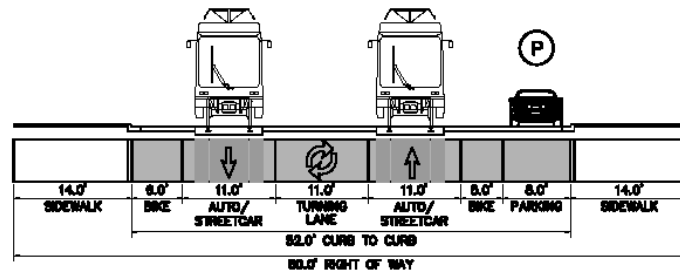
# Additional Slides



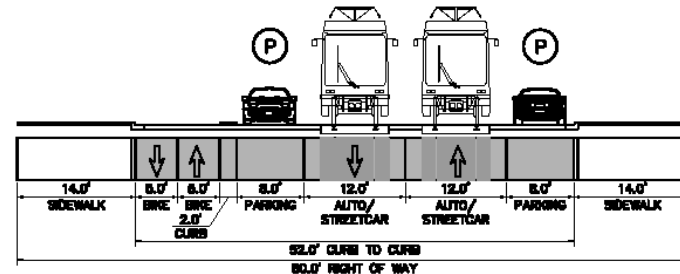
# Broadway: Cycle Track and other Street Design Options To Be Considered



BROADWAY AVE – 4-LANE SECTION ALTERNATIVE



BROADWAY AVE – 3-LANE SECTION ALTERNATIVE



BROADWAY AVE – COMMUNITY COUNCIL'S ALTERNATIVE



- Broadway
- Pike/Pine
- First Hill
- Little Saigon
- Chinatown/ID
- King Street Station

## E Denny Way between Broadway and 11th Ave E Shared Street Concept - Broadway/11th Alignment (looking east)

Sunday Farmers' Market / Special Events\*

vendors

pedestrian  
concourse

temporary  
barrier

\*Streetcar would continue to operate during road closures

existing sidewalk / landscaping

(varies)

parallel parking

7'

shared travelway (westbound only)

18'

landscape zone

10 -12'

existing sidewalk / Cal Anderson Park

(varies)

existing roadway  
(30' curb-to-curb)

not to scale

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